

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
6 May 2005 (06.05.2005)

PCT

(10) International Publication Number
WO 2005/041127 A3

(51) International Patent Classification⁷: **G06T 7/00**

(21) International Application Number:
PCT/EP2004/009789

(22) International Filing Date:
2 September 2004 (02.09.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
0312386 23 October 2003 (23.10.2003) FR

(71) Applicant (for all designated States except US): **THOMSON LICENSING SA** [FR/FR]; 46, quai Alphonse Le Gallo, F-92100 BOULOGNE BILLANCOURT (FR).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **VIGOUROUX, Jean-Ronan** [FR/FR]; 11A rue d'Echange, F-35000 RENNES (FR). **CHUPEAU, Bertrand** [FR/FR]; 12

Square de Tanouarn, F-35700 RENNES (FR). **STAUDER, Jürgen** [DE/FR]; Le Bas Epinay, F-35440 MON-TREUIL/ILLE (FR).

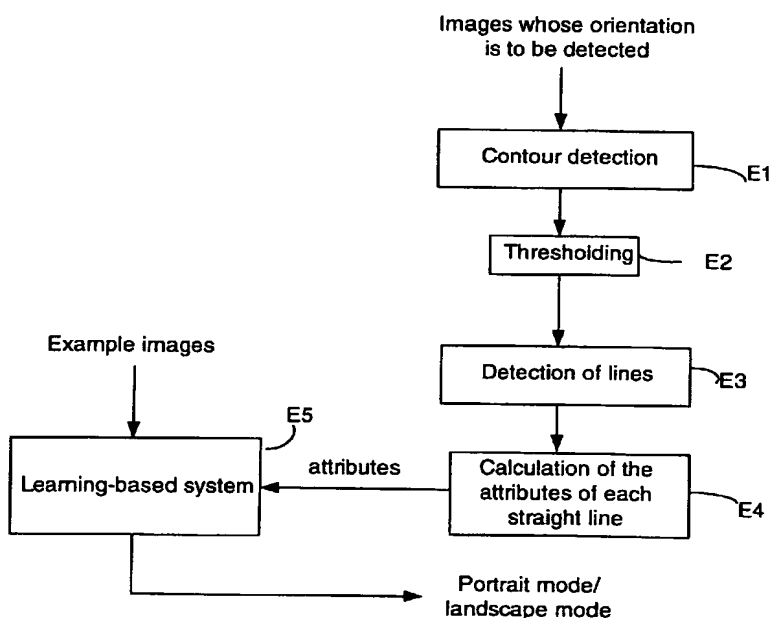
(74) Agent: **BENEZETH, Philippe**; 46, quai Alphonse le Gallo, F-92100 BOULOGNE BILLANCOURT (FR).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,

[Continued on next page]

(54) Title: METHOD AND DEVICE FOR DETECTING THE ORIENTATION OF AN IMAGE



(57) Abstract: The invention relates to a method and device for detecting the orientation of an image. The method is such that it comprises the steps of: - detecting (E1, E2, E3) the lines in the image, - calculating (E4), for each line detected, attributes (F) characterizing each line, - detecting (E5) the orientation of the image as a function of the attributes of the set of lines detected. Application to the detection of the orientation of photos taken by a digital camera.

WO 2005/041127 A3



SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

Published:

- *with international search report*
- *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

(88) Date of publication of the international search report:

30 June 2005